

Liquid Immersion Temperature Sensors with 4 to 20 mA Transmitter Component Kit

Product Description

The Component Kit (well not included) is designed for installation into a 2-1/2-, 4-, or 6-inch well. The sensor in the kit provides a temperature input to a controller.

Contents

Description	Quantity
LB Box w/connector	1
Sensor	1
Transmitter	1
Sensor support tubes	3
Spring	1
Spring retaining washer	1
Wire nuts	4

Product Numbers

536-774-RK	4 to 20 mA, 20°F to 70°F
536-767-RK	4 to 20 mA, 30°F to 250°F
544-562-RK	4 to 20 mA, 0°C to 100°C

Required Tools

- Medium flat-blade screwdriver
- 1-1/4-inch open end wrench or equivalent adjustable wrench
- Pliers or channel-locks
- Wire stripper
- Dow Corning #340 (or similar) thermal compound

Expected Installation Time

28 minutes

Prerequisites

- Read these instructions before beginning.
- The immersion well(s) must be previously installed and field wiring pulled to a termination point near the well.

Installation

Installing a sensor assembly into a well

1. Disconnect one of the leads of the field wiring from the termination board or block at the controller.
2. Uncoil the sensor leads and remove the plug from the well.
3. Select the appropriate length sensor support tube for the well being serviced.
4. Assemble the spring and spring retaining washer onto the sensor support tube and pass the lead wires of the sensor through the tube. See Figure 1.

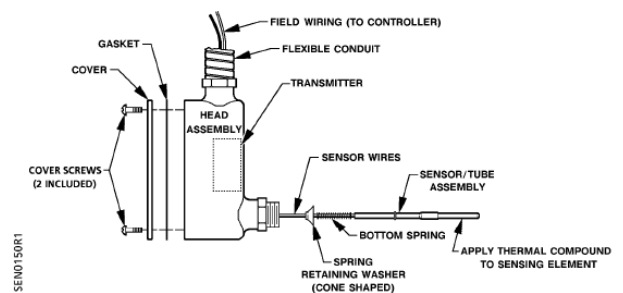


Figure 1. Sensor Assembly.

5. Coat the sensor with thermal compound and insert the assembly into the well.
6. Remove the cover and gasket from the LB box.
7. Wrap the threads of the connector installed on the LB box with Teflon[®] tape or equivalent.
8. Thread the sensor leads through the connector and out through the cover opening.
9. Screw the connector/LB box into the well.
10. Install wiring conduit, flex or rigid, between the field utility box and the LB box.
11. Run field wiring through the conduit to the LB box and connect the field wiring to the sensor leads using the wire nuts provided.

NOTE: In applications where condensate may accumulate (chillers, low temperature sensing, and so on), seal all wire nut connections with RTV sealant.

12. Reinstall the gasket and cover onto the LB Box.
13. Reconnect the wiring lead disconnected in Step 1.

The installation is now complete

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